

**From:** [Higginsbotham, Nanci E CIV USARMY CENWK \(US\)](#)  
**To:** [Hauber, Erin M CIV USARMY CENWK \(USA\)](#); [Granger, Michelle](#)  
**Subject:** RE: Government Shutdown & Review of Results of Supplemental Soil Borings, Washington Plant Shutdown, OUI, PVGCS Site (UNCLASSIFIED)  
**Date:** Thursday, December 27, 2018 8:27:13 AM

---

CLASSIFICATION: UNCLASSIFIED

I am also available if needed. N-

-----Original Message-----  
From: Hauber, Erin M CIV USARMY CENWK (USA)  
Sent: Thursday, December 27, 2018 7:17 AM  
To: Granger, Michelle <[Granger.Michelle@epa.gov](mailto:Granger.Michelle@epa.gov)>  
Cc: Higginsbotham, Nanci E CIV USARMY CENWK (US) <[Nanci.E.Higginsbotham@usace.army.mil](mailto:Nanci.E.Higginsbotham@usace.army.mil)>  
Subject: RE: Government Shutdown & Review of Results of Supplemental Soil Borings, Washington Plant Shutdown, OUI, PVGCS Site  
  
Hi Michelle,

Hope you had a great holiday. I'm working today and tomorrow but a combination of home and office.

I agree that there is good correlation between PID and soil analytical results for TCE. I recall looking at this during last Spring's PDI. I did a quick check and plotted PID vs. TCE concentration detections for 6 of the borings in the provided spreadsheet (SB-18, 20, 24, 25, 26, and VMP-1). I agree that 50 ppbV is a decent field screening indicator that we may have concentrations of TCE at or above 1 mg/kg.

It looks like they should have field screening results for the first set of borings soon based on last night's report and will be deliberating on the location of the next set of borings. I'll be monitoring email and cell phone in the event we need to make a quick decision.

Erin

-----Original Message-----  
From: Granger, Michelle [[maibbs@Granger.Michelle@epa.gov](mailto:maibbs@Granger.Michelle@epa.gov)]  
Sent: Wednesday, December 26, 2018 9:44 AM  
To: Hauber, Erin M CIV USARMY CENWK (USA) <[Erin.M.Hauber@usace.army.mil](mailto:Erin.M.Hauber@usace.army.mil)>  
Subject: [Non-DoD Source] FW: Government Shutdown & Review of Results of Supplemental Soil Borings, Washington Plant Shutdown, OUI, PVGCS Site

Hi, Erin-

Hope you and your family are having a great holiday!

I'm working at my AWL today and tomorrow. Just wanted to get your thoughts on the info below and attached from Bruce.

Thank you!

Michelle-

---

From: Bruce S Kennington [[bkennington@ramboll.com](mailto:bkennington@ramboll.com)]  
Sent: Wednesday, December 26, 2018 10:39 AM  
To: Granger, Michelle  
Cc: Erin.M.Hauber@usace.army.mil; Luis Hidalgo@riointo.com; Stan Popelar; Michael Kevin Eddings; Brink; Bradley J CIV USARMY CENWK (US) (Bradley.J.Brink@usace.army.mil); patrick nejand  
Subject: RE: Government Shutdown & Review of Results of Supplemental Soil Borings, Washington Plant Shutdown, OUI, PVGCS Site

Thank you, Michelle! Very good to hear.

PVI, as reported in our daily update sent out by Stan Popelar, our on-site drill preparation crews got both rigs setup inside the Washington Plant building and on the MPA floor ready to go yesterday. Drill crews were ready to commence drilling in earnest 1st thing this morning.

If all goes well, it is possible that the first pair of soil borings may be completed by early tomorrow morning, at which point we will be looking to connect with you and your staff to reach concurrence on movement to the next drill location for each rig. Although we may have some soil analytical results, we would not have all lab results for each soil boring in time, and will need to make a decision so as not to delay rig movement to accomplish our planned additional soil borings during this limited window of access to the MPA floor during this plant shutdown.

Accordingly, we anticipate the need to make decisions where to move the drill rigs next based on PID screening results. Please see the attached summary table with both PID readings and soil analytical results from the PDI soil borings completed to date. In the vast majority of instances where TCE analytical results in soils were greater than significantly greater than 1 mg/kg (e.g., soil boring in the MPA at SB-25 and SB-26), PID screening results were >50 PPbV.

We are tracking progress of the drilling very closely and will update you with a proposed time for a call as soon as we are able.

Bruce S Kennington

Principal

D +1 (312) 288-3854

M +1 (312) 953-9965

[bkennington@ramboll.com](mailto:bkennington@ramboll.com)

-----Original Message-----  
From: Granger, Michelle <[Granger.Michelle@epa.gov](mailto:Granger.Michelle@epa.gov)>  
Sent: Wednesday, December 26, 2018 7:30 AM  
To: Bruce S Kennington <[bkennington@ramboll.com](mailto:bkennington@ramboll.com)>  
Cc: Erin.M.Hauber@usace.army.mil  
Subject: RE: Government Shutdown & Review of Results of Supplemental Soil Borings, Washington Plant Shutdown, OUI, PVGCS Site

Hi, Bruce-

Michelle-

[illegible]

Subject: Coordination for Supplemental Soil Borings, Washington Plant Shutdown, OU3, PVGCS Site

[Dear Michelle:](#)

Please see the below and attached with details on the planned supplemental soil borings to be performed inside the Main Production Area (MPA) of the Albéa Americas Washington facility during the scheduled plant shutdown from Dec 24, 2018 to Jan 1, 2019. Included is a GANT chart time schedule and maps illustrating routes for staging and transport of materials both inside and outside of the Washington plant building. We have had recent meetings and on-site reviews with the Albéa facility staff to coordinate details and are prepared to proceed accordingly.

December Plant Shutdown - Drilling Implementation time schedule in MPA Please see attached "Exhibit B" with details of the planned December drilling activities, and the below with descriptions of the activities that are planned each date. Ramboll and Cascade Drilling personnel will arrive on-site beginning December 18th to perform outdoor setup activities. Movement of drilling equipment and setup inside the building is planned to begin on Dec 24th. The "Daytime" shift described below will begin each day at 7AM, and the "Night" shift will begin each day at 7PM.

*October 18 - On/Oldor Sea Shift, One 10 to 12 hours Shift (Daylight December 19 - On/Oldor Sea Shift, One 10 to 12 hours Shift (Daylight) December 20 - On/Oldor Sea Shift, One 10 to 12 hours Shift (Daylight) December 21 - On/Oldor Sea Shift, One 10 to 12 hours Shift (Daylight) December 22 - On/Oldor Sea Shift, One 10 to 12 hours Shift (Daylight) December 23 - On/Oldor Sea Shift, One 10 to 12 hours Shift (Daylight) December 24 - On/Oldor Sea Shift, One 10 to 12 hours Shift (Daylight) December 25 - On/Oldor Sea Shift, One 10 to 12 hours Shift (Daylight) December 26 - Drilling inside MPA - Two Rigs/Two 10 to 12 hours Shifts (Day/Night Shift) December 27 - Drilling inside MPA - Two Rigs/Two 10 to 12 hours Shifts (Day/Night Shift) December 28 - Drilling inside MPA - Two Rigs/Two 10 to 12 hours Shifts (Day/Night Shift) December 29 - Drilling inside MPA - Two Rigs/Two 10 to 12 hours Shifts (Day/Night Shift) December 30 - Drilling inside MPA - Two Rigs/Two 10 to 12 hours Shifts (Day/Night Shift) December 31 - Drilling inside MPA - Two Rigs/Two 10 to 12 hours Shifts (Day/Night Shift) January 1 - Demurré from the MPA and Clean-up - Two Rigs/Two 10 to 12 hours Shifts (Day/Night Shift and before midday January 2 - Onshore Demurrage (If needed)*

Traffic Routes and Staging/Laydown Areas. Please see the attached Figure 1, with the planned traffic route for movement of equipment and materials and proposed outdoor staging areas. Figure 2 illustrates the planned ingress and egress routes for movement of equipment and materials inside the building to support the December drilling activities in the MPA.

*[Of important note is that given the limited time frame to perform this work within the MPA before the plant resumes production (a total of 9 days, and 6 days of drilling to complete up to 4 total soil borings), as soon as we have results (i.e., field observations, PID measurements and 24-hour TAT for volatiles in soil samples) we would like to communicate with USEPA and reach concurrence on the next steps (e.g., to step inward or outward with subsequent soil borings) the same day that results are received. As this drilling will be during the common holiday break between Christmas and New Year's day, we look to ensure that this can be accommodated.]*

Please let us know if there are any questions on the detailed schedule for these supplemental soil boring activities for OU3.

Sincerely,

[Brace S. Kennington](#)

Masters of Engineering Environmental Engineering Principal

1692722 - Great Lakes

[D.4.1 \(312\) 288-3834](#)

[M+1 \(312\) 953-9965](#)

[bkennington@ramboll.com](mailto:bkennington@ramboll.com) <<mailto:bkennington@ramboll.com>>

[Connect with us - Icid-image001.jpg@01D49B77.54CC36B01-Blockedhttps://www.linkedin.com/company/ramboll/-Icid-image002.jpg@01D49B77.54CC36B01-Blockedhttps://emey01.safelinks.protection.outlook.com/?url=https%3A%2F%2Fwiner.com%2Framboll&amp;data=02%7C01%7C6bc8c9e0d040ramboll.com%7C4884c2955424473f9e608d66b36311%7C68823d91be814f896d246c34d789e1d69%7C1%7C0%7C63681d278130463759&amp;data=010E17GanPJCjz3oJdYk3QrHvV6%7FeO7UOKw%3D&amp;reserved=0](#)

Ramboll

333 West Wacker Drive

[Suivez 2700](#)

Chicago, IL 60606

USA

[illegible]

CLASSIFICATION: UNCLASSIFIED